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SUGHRUE MION ZINN MACPEAK & SEAS, PLLC

**Darryl Mexic**

T 202-663-7909

dmexic@sughrue.com

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# BOX PCT

Commissioner for Patents  
Washington, D.C. 20231

PCT/JP00/00303  
-filed January 24, 2000

Re: Application of Akihiro GOTO and Toshio MORO  
ELECTRIC POWER UNIT FOR ELECTRIC DISCHARGE SURFACE  
TREATMENT AND METHOD OF ELECTRIC DISCHARGE SURFACE  
TREATMENT

**Assignee: MITSUBISHI DENKI KABUSHIKI KAISHA**

Our Ref: Q65416

Dear Sir:

The following documents and fees are submitted herewith in connection with the above application for the purpose of entering the National stage under 35 U.S.C. § 371 and in accordance with Chapter I of the Patent Cooperation Treaty:

- ☒ an executed Declaration and Power of Attorney.
- ☒ an English translation of the International Application.
- ☒ seven (7) sheets of drawings.
- ☒ an executed Assignment and PTO 1595 form.
- ☒ International Search Report with Form PTO-1449 listing the ISR references, and a complete copy of each reference.

It is assumed that copies of the International Application, the International Search Report, the International Preliminary Examination Report, and any Articles 19 and 34 amendments as required by § 371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned can easily provide them upon request.

The Government filing fee is calculated as follows:

Total claims	<u>2</u>	-	20	=	<u>          </u>	x \$18.00	=	<u>\$0.00</u>
Independent claims	<u>2</u>	-	3	=	<u>          </u>	x \$80.00	=	<u>\$0.00</u>
Base Fee								\$860.00

<b>TOTAL FILING FEE</b>	<u>\$860.00</u>
<b>Recordation of Assignment</b>	<u>\$ 40.00</u>
<b>TOTAL FEE</b>	<b>\$900.00</b>



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Checks for the statutory filing fee of \$860.00 and Assignment recordation fee of \$40.00 are attached. You are also directed and authorized to charge or credit any difference or overpayment to Deposit Account No. 19-4880. The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.492 which may be required during the entire pendency of the application to Deposit Account No. 19-4880. A duplicate copy of this transmittal letter is attached.

There is no claim to priority.

Respectfully submitted,

SUGHRUE, MION, ZINN,  
MACPEAK & SEAS, PLLC  
2100 Pennsylvania Avenue, N.W.  
Washington, D.C. 20037-3213  
Telephone: (202) 293-7060  
Facsimile: (202) 293-7860  
DM/plr  
Date: September 24, 2001

Darryl Mexic  
Registration No. 23,063

7/ppts

## Description

### ELECTRIC POWER UNIT FOR ELECTRIC DISCHARGE SURFACE TREATMENT AND METHOD OF ELECTRIC DISCHARGE SURFACE TREATMENT

#### Technical Field

The present invention relates to improvements in an electric power unit for electric discharge surface treatment, and also the present invention relates to improvements in a method of electric discharge surface treatment, by which a hard coat made of electrode material or a hard coat made of electrode material, which has reacted by electric discharge energy, is formed on a surface of a workpiece by energy of electric discharge when the electric discharge is generated between the electrode for electric discharge surface treatment and the workpiece.

#### Technical Art

Concerning the prior art by which a hard coat is formed on a surface of a workpiece so as to endow the workpiece with a corrosion resistance and abrasion resistance property, for example, Japanese Patent Laid-Open No.148615/1993 discloses a method of electric discharge surface treatment. According to the patent publication, there is provided a method of electric discharge surface